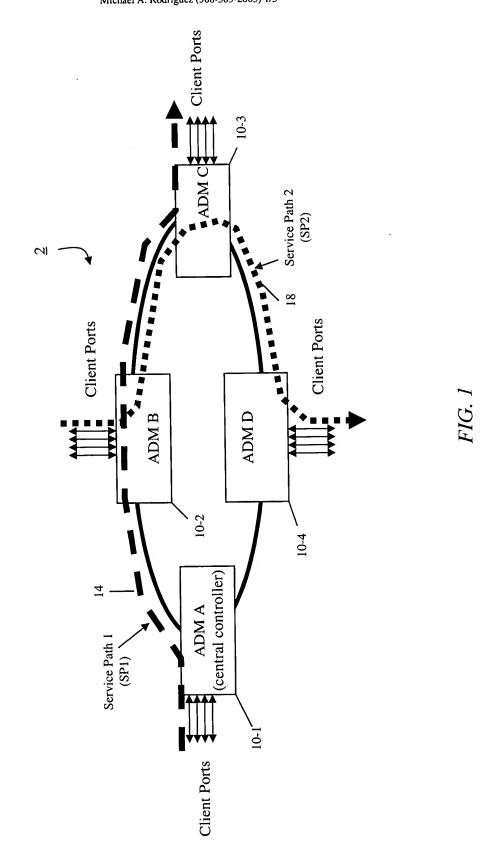
Title: System and Method of Adaptively Managing Bandwidth on Optical Links Shared by Multiple-Services Using Virtual Concatenation and Link Capacity Adjustment Schemes Docket No. NOR-036 (16094RO) Express Mail No.: EU693492730US Michael A. Rodriguez (508-303-2003) 1/3



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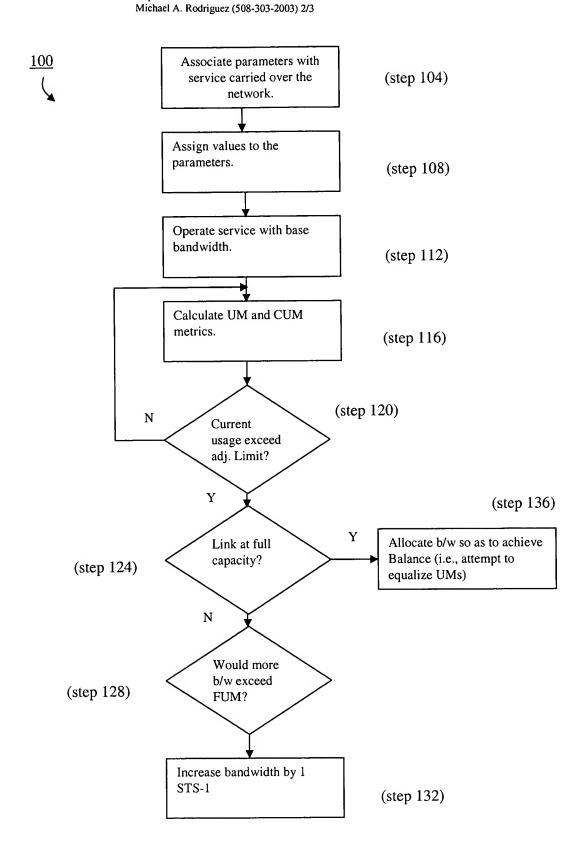


FIG. 2

Docket No. NOR-036 (16094RO) Express Mail No.: EU693492730US Michael A. Rodriguez (508-303-2003) 3/3 Determine central controller (step 154) in the network. Calculate UM and CUM values for service S1 (step 158) Forward UM and CUM values toward exit point of service S1 (step 162) through any intermediate NEs Calculate UM and CUM metrics for service S2. (step 166) Forward UM and CUM values toward exit point of service S2 (step 170) through any intermediate NEs Associate an SOI list with each service S1, S2. (step 174) Add each service S1, S2 to the other service's SOI list. (step 178) Exit point for service \$1 sends SOI lists to central (step 182) controller FIG. 3 Exit point for service S2 sends SOI lists to central (step 186) controller Central controller calculates new target UM and CUM (step 190) values for each service Central controller transmits messages to the other NEs to (step 194) implement new target UM

and CUM values.

Bandwidth on Optical Links Shared by Multiple-Services Using Virtual Concatenation and Link

Capacity Adjustment Schemes